## **AMENDMENTS TO THE CLAIMS**

Please AMEND claims 1, 2, 5, 10, 11, 13, 17-19, 21, 25, 27, 28, 32 and 34, ADD claims 35-43, and CANCEL claims 3, 7, 9, 14-16, 20, 23, 29-31 and 33 in accordance with the following:

1. (Currently Amended) A method for managing [[an]] <u>a write-once</u> optical recording medium having at least one defective area in a user data area,

wherein the optical recording medium comprises one or more temporary defect management areas and a final defect management area, and said method comprises comprising:

- (a) recording data recorded in of the at least one defective area existing in the user data area [[in]] into a spare area of the optical recording medium as replacement data and providing a first temporary defect list having a defect entry for the at least one defective area;
- (b) recording, in a-one of the one or more temporary defect management area areas, a cumulative temporary defect list for an additional defective area in the user data area, wherein the cumulative temporary defect list includes the first temporary defect list previously recorded and at least one additional defective defect entry for any additional defective area, each defect entry including position information of a corresponding defective area and position information of replacement data to replace data of the corresponding defective area;
- (c) recording, in the same temporary defect management area on which the cumulative temporary defect list is recorded, access information for accessing the cumulative temporary defect list; and

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(d) recording a latest cumulative temporary defect list recorded in the one temporary

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defect management area in [[a]] the final defect management area when the optical recording

medium is to be finalized, wherein after finalizing the optical recording medium no additional

recording is made to the optical recording medium,

wherein the one or more temporary defect management areas area is are separately

positioned from the final defect management area-and-the-cumulative-temporary defect list is

recorded on a different area from an area into which the first temporary defect list is recorded

within the temporary defect management area.

2. (Currently Amended) The method according to claim 1, further comprising wherein

the step of (c) records recording information for accessing the cumulative temporary defect list

as temporary disc definition structure information as the access information in a temporary disc

definition structure area of the temporary defect management area.

3-4. (Cancelled)

5. (Currently Amended) The method according to claim 2, further comprising recording

the wherein the step of (d) comprises recording a latest temporary disc definition structure

information [[in]] into the final defect management area when the recording medium is to be

finalized.

6-9. (Cancelled)

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10. (Currently Amended) The method according to claim [[9]] 1, wherein the

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management information includes the position information of the corresponding defective area

indicates a first physical sector number of the corresponding defective area and the position

information of the replacement data indicates a first physical sector number of the replacement

data recorded in the spare area for each defect entry and a first-physical sector number of a

defective area-for each defect entry.

11. (Currently Amended) The method according to claim 1, wherein the spare area of the

optical recording medium includes an inner spare area and an outer spare area, and the step of

recording data recorded in the defective area(a) utilizes at least one of the inner spare area and

the outer spare area.

12. (Original) The method according to claim 1, wherein the cumulative temporary defect

list is repeatedly recorded in at least two areas of the optical recording medium.

13. (Currently Amended) The method according to claim 1 [[12]], wherein the at least

two areas of the optical recording medium the one or more temporary defect management areas

are located in a portion of a data area and a lead-in area of the optical recording medium.

14-16. (Cancelled)

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17. (Currently Amended) A write-once recording medium comprising:

at least one spare area and a user data area within a data area;

[[a]] one or more temporary defect management areas area for managing replacement

data of at least one defective area within [[a]] the user data area of the data area, the one or more

temporary defect management area areas configured to store a plurality of cumulative temporary

defect lists and access information, the access information being used for accessing a

corresponding cumulative temporary defect list and being stored in the same temporary defect

management area on which the corresponding cumulative temporary defect list is stored,

wherein one of the cumulative temporary defect lists includes management information

for the replacement data of said at least one defective area cumulatively recorded and

management information for replacement data for at least one additional defective area of the

user data area, each defect entry of the plurality of cumulative temporary defect lists including

position information of a corresponding defective area and position information of replacement

data to replace data of the corresponding defective area, wherein after the recording medium is

finalized no additional recording is made to the recording medium and each cumulative

temporary defect list is recorded on a different area within the temporary defect management

area; and

a final defect management area for storing a latest cumulative temporary defect list

recorded in the one or more temporary defect management areas area when the recoding medium

is to be finalized,

wherein the one or more temporary defect management areas area is are separately

positioned from the final defect management area.

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18. (Currently Amended) The recording medium according to claim 17, further

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comprising a temporary disc definition structure within a lead in area of the recording medium,

wherein recording the access information for accessing the cumulative temporary defect list is

stored as temporary disc definition structure information within the temporary disc definition

structure.

19. (Currently Amended) The recording medium according to claim 18, wherein the

cumulative temporary defect list and the temporary disc definition structure information are

recorded in a at least one of the one or more temporary defect management areas located in the

lead-in area of the optical-recording medium.

20. (Cancelled)

21. (Currently Amended) The recording medium according to claim 18, wherein the final

defect management area further stores includes a latest temporary disc definition structure

information when the recording medium is to be finalized.

22-24. (Cancelled)

25. (Currently Amended) The recording medium according to claim 17, wherein each of

the management of the cumulative temporary defect list the position information of the

corresponding defective area includes a first physical sector number of the corresponding

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defective area and the position information of the replacement data includes a first physical

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sector number of the replacement data recorded in the at least one spare areafor each defect entry

and a first physical sector number of a defective area for each defect entry.

26. (Original) The recording medium according to claim 17, wherein the at least one

spare area includes an inner spare area and an outer spare area, and the replacement data for the

at least one defective area is located in at least one of the inner spare area and the outer spare

area.

27. (Currently Amended) The recording medium according to claim 17, wherein [[the]]

each cumulative temporary defect list is repeatedly recorded in at least two areas of the recording

medium.

28. (Currently Amended) The recording medium according to claim [[27]] 17, wherein

the at-least two areas of the recording medium the one or more temporary defect management

areas are located in a portion of a the data area and a lead-in area of the recording medium.

29-31. (Cancelled)

32. (Currently Amended) An apparatus for managing an optical recording medium

having at least one defective area in a user data area temporary defect management area; and a

spare-area-in a data-area,

wherein the recording medium comprises one or more temporary defect management

areas and a final defect management area, and said apparatus comprises comprising:

a recording unit configured to record data recorded in of the at least one defective area

[[of]] into the a spare area in the optical recording medium as replacement data and to provide a

first temporary defect list having a defect entry for the at least one defective area;

the recording unit being configured to record, in at least one of the one or more a

temporary defect management area areas, a cumulative temporary defect list for an additional

defective area in [[a]] the user data area, wherein the cumulative temporary defect list includes

the first temporary defect list previously recorded and at least one additional defective defect

entry for any additional defective area, each of the defect entry including position information of

a corresponding defective area and position information of replacement data to replace data of

the corresponding defective area,

the recording unit being configured to record, in the same temporary defect management

area on which the cumulative temporary defect list is recorded, access information for accessing

the cumulative temporary defect list; and

the recording unit being configured to record a latest cumulative temporary defect list

recorded in the one or more temporary defect management areas area in into a final defect

management area when the optical recording medium is to be finalized, wherein after finalizing

the optical recording medium no additional recording is made to the optical recording medium,

and

the one or more temporary defect management areas [[is]] are separately positioned from

the final defect management area wherein the cumulative temporary defect list is recorded on a

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different area from an area into which the first temporary defect list is recorded within the

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temporary defect management area.

33. (Cancelled)

34. (Currently Amended) The method of claim [[33]] 1, wherein the cumulative

temporary defect list and the access information of the cumulative temporary defect list are

included in [[the]] a first data block is a single consisting of one or more clusters, data unit and

recorded in the same temporary defect management area.

35. (New) The recording medium of claim 17, wherein each access information and the

corresponding cumulative temporary defect list are included in a first data block consisting of

one or more clusters, and recorded in the same temporary defect management area.

36. (New) The apparatus of claim 32, wherein the recording unit comprises:

a pickup configured to record/reproduce data on/from the optical recording medium; and

a controller operatively coupled to the pickup and configured to control the pickup to

record the cumulative temporary defect list and the access information into the same temporary

defect management area; and, when the optical recording medium is to be finalized, control the

pickup to record the latest cumulative temporary defect list into the final defect management

arca.

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37. (New) The apparatus of claim 36, wherein the controller is configured to control the

pickup to record temporary disc definition structure information as the access information.

38. (New) The apparatus of claim 37, wherein the controller is configured to further

record latest temporary disc definition structure information into the final defect management

area when the optical recording medium is to be finalized.

39. (New) The apparatus of claim 32, wherein the cumulative temporary defect list is

repeatedly recorded in at least two temporary defect management areas.

40. (New) The apparatus of claim 39, wherein the at least two temporary defect

management areas are located in a data area and a lead-in area of the optical recording medium.

41. (New) The apparatus of claim 37, wherein the controller is configured to control the

pickup to record, into the same temporary defect management area, a data block consisting of

one or more clusters and having the cumulative temporary defect list and the access information

of the cumulative temporary defect list.

42. (New) A method for reproducing management information for managing a defect on

an optical recording medium having at least one defective area in a user data area,

wherein the optical recording medium comprises one or more temporary defect

management areas and a final defect management area, and said method comprises:

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before the optical recording medium is finalized, reproducing access information for

accessing a cumulative temporary defect list from one of the one or more temporary defect

management areas on which the cumulative temporary defect list is recorded, and reproducing

the cumulative temporary defect list for managing defective areas existing in a data area from the

same temporary defect management area on which the access information is recorded based on

the access information, wherein the cumulative temporary defect list includes both a defect entry

included in a previous temporary defect list and a new defect entry for a new defective area

existing in the data area, each defect entry including position information of a corresponding

defective area and position information of replacement data to replace data of the corresponding

defective area, and reproducing the replacement data from a spare area of the optical recording

medium based on the cumulative temporary defect list; and

after the optical recording medium is finalized, reproducing a finalized cumulative

temporary defect list from the final defect management area, and reproducing the replacement

data from the spare area based on the finalized cumulative temporary defect list reproduced from

the temporary defect management area,

wherein the one or more temporary defect management areas are separately positioned

from the final defect management area and no additional recording is made to the optical

recording medium after finalizing the optical recording medium.

43. (New) An apparatus for reproducing management information for managing a defect

on an optical recording medium having at least one defective area in a user data area,

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wherein the optical recording medium comprises one or more temporary defect management areas and a final defect management area, and said apparatus comprises:

a pickup configured to record/reproduce data on/from the optical recording medium; and a controller operatively coupled to the pickup and configured to control, before the optical recording medium is finalized, the pickup to reproduce access information for accessing a cumulative temporary defect list from one of the one or more temporary defect management areas on which the cumulative temporary defect list is recorded, and reproducing the cumulative temporary defect list for managing defective areas existing in the data area from the same temporary defect management area on which the access information is recorded based on the access information, wherein the cumulative temporary defect list includes both a defect entry included in a previous temporary defect list and a new defect entry for a new defective area existing in the data area, each defect entry including position information of a corresponding defective area and position information of replacement data to replace data of the corresponding defective area, and to reproduce the replacement data from a spare area of the optical recording medium based on the cumulative temporary defect list; and configured to control, after the recording medium is finalized, the pickup to reproduce a finalized cumulative temporary defect list from the final defect management area, and to reproduce the replacement data from the spare area based on the finalized cumulative temporary defect list reproduced from the temporary defect management area,

wherein the one or more temporary defect management areas are separately positioned from the final defect management area and no additional recording is made to the optical recording medium after finalizing the optical recording medium.